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(FILE 'HOME' ENTERED AT 10:41:08 ON 11 MAY 2005)

FILE 'HCAPLUS' ENTERED AT 10:41:13 ON 11 MAY 2005

L1 1 SEA ABB=ON PLU=ON (GB2000-12083# OR GB1999-20397# OR
WO2000-GB3306#)/AP, PRN

FILE 'REGISTRY' ENTERED AT 10:42:35 ON 11 MAY 2005

FILE 'HCAPLUS' ENTERED AT 10:42:43 ON 11 MAY 2005

L2 TRA L1 1- RN : 47 TERMS

FILE 'REGISTRY' ENTERED AT 10:42:43 ON 11 MAY 2005

L3 47 SEA ABB=ON PLU=ON L2

FILE 'WPIX' ENTERED AT 10:42:46 ON 11 MAY 2005

L4 1 SEA ABB=ON PLU=ON (GB2000-12083# OR GB1999-20397# OR
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=> b hcap

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FILE LAST UPDATED: 10 May 2005 (20050510/ED)

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L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:167843 HCAPLUS

DN 134:237835

ED Entered STN: 09 Mar 2001

TI Method for coupling molecules such as peptides and oligonucleotides

IN Gait, Michael John; Stetsenko, Dmitry

PA Medical Research Council, UK

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K047-48

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 33

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001015737	A2	20010308	WO 2000-GB3306	20000825 <--
	WO 2001015737	A3	20011115		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				

Search done by Noble Jarrell

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2382499 AA 20010308 CA 2000-2382499 20000825 <--
 EP 1207909 A2 20020529 EP 2000-956666 20000825 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 JP 2003508450 T2 20030304 JP 2001-520148 20000825 <--
 PRAI GB 1999-20397 A 19990827 <--
 GB 2000-12083 A 20000518 <--
 WO 2000-GB3306 W 20000825 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001015737	ICM	A61K047-48

OS MARPAT 134:237835

AB A method is given for linking a first mol. M1-NH2 with a second mol. M2-OH which comprises reaction of a compound of formula M1-NHCO-A-C(O)SR1 (M1 is the residue of a mol. bearing an amino group, A is an alkylene or arylene group, R1 is alkyl or aryl) with a compound of formula M2-O-B(D-SR2)NH2 (M2 is the residue of a mol. bearing a hydroxy group, B is a linker, D is C1-4 alkylene or C3-12 arylene, R2 is H or a thiol protecting group). In addition, this invention relates to conjugate products of the coupling reaction, reagents for modifying M1-NH2 and M2-OH, and kits comprising these reagents. Thus, coupling reagents pentafluorophenyl S-benzyl thiosuccinate and 4-N- α -Fmoc-S-tert-butylsulfenyl-L-cysteinylpiperidyl 2-cyanoethyl N,N-diisopropylphosphoramidite were prepared and applied to the automated solid phase synthesis of peptide N-terminal S-benzyl thioesters and 5'-cysteinyl oligonucleotides and solution-phase synthesis of peptide-N-5'-oligonucleotide conjugates.

ST coupling method peptide oligonucleotide prepn

IT Peptide coupling

(method for coupling mols. such as peptides and oligonucleotides)

IT Oligonucleotides

Peptides, preparation

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(method for coupling mols. such as peptides and oligonucleotides)

IT 100-53-8, Benzyl mercaptan 108-30-5, Succinic anhydride, reactions 771-61-9, Pentafluorophenol 5382-16-1, 4-Hydroxypiperidine 5961-85-3, Tris(2-carboxyethyl)phosphine 50910-54-8, trans-4-Aminocyclohexanol hydrochloride 89992-70-1 102691-36-1 115520-21-3 143038-41-9
 RL: RCT (Reactant); RACT (Reactant or reagent)

(method for coupling mols. such as peptides and oligonucleotides)

IT 110556-14-4P 294172-31-9P 294172-32-0P 294172-33-1P 294172-35-3P
 294172-37-5P 294172-39-7P 329185-90-2P 329185-91-3P 329185-94-6P
 329185-97-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(method for coupling mols. such as peptides and oligonucleotides)

IT 294172-40-0P 294172-41-1P 294172-42-2P 294172-43-3P 294172-44-4P
 294172-45-5P 294172-46-6P 294172-47-7P 294172-48-8P 294172-49-9P
 294172-50-2P 294900-76-8P 294900-77-9P 294900-78-0P 294900-79-1P
 294900-80-4P 295810-35-4P 295810-36-5P 295810-37-6P 295810-38-7P
 295810-39-8P 295810-40-1P 295810-41-2P 329186-01-8P 329991-05-1P
 329991-06-2DP, fluorescein bound

RL: SPN (Synthetic preparation); PREP (Preparation)

(method for coupling mols. such as peptides and oligonucleotides)

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FILE LAST UPDATED: 6 MAY 2005 <20050506/UP>

MOST RECENT DERWENT UPDATE: 200529 <200529/DW>

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FOR DETAILS. <<<

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L4 ANSWER I OF 1 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
AN 2001-367105 [38] WPIX
DNC C2001-112480
TI Method for coupling molecules, e.g. peptides and oligonucleotides, and new
intermediates and reagents.
DC B04 B05
IN GAIT, M J; STETSENKO, D
PA (MEDI-N) MEDICAL RES COUNCIL
CYC 95
PI WO 2001015737 A2 20010308 (200138)* EN 39 A61K047-48
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AU 2000068539 A 20010326 (200138) A61K047-48
EP 1207909 A2 20020529 (200243) EN A61K047-48
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI
JP 2003508450 W 20030304 (200319) 44 C07K001-00
ADT WO 2001015737 A2 WO 2000-GB3306 20000825; AU 2000068539 A AU
2000-68539 20000825; EP 1207909 A2 EP 2000-956666 20000825, WO
2000-GB3306 20000825; JP 2003508450 W WO 2000-GB3306 20000825
, JP 2001-520148 20000825
FDT AU 2000068539 A Based on WO 2001015737; EP 1207909 A2 Based on WO
2001015737; JP 2003508450 W Based on WO 2001015737
PRAI GB 2000-12083 20000518; GB 1999-20397
19990827
IC ICM A61K047-48; C07K001-00
ICS A61K031-7088; A61K048-00; A61P043-00; C07K007-00; C07K014-00
AB WO 2001015737 A UPAB: 20010711
NOVELTY - Linking an amine derivative (I') with a hydroxy derivative (II')
comprises reacting an alkyl or aryl thio ester (I) with an amino thioether
(II).
DETAILED DESCRIPTION - Linking an amine derivative (I') with a
hydroxy derivative (II') comprises reacting an alkyl or aryl thioester (I)
with an amino thioether (II).
M1 = residue of a molecule bearing an amino group;
A' = alkylene or arylene;
R1 = alkyl or aryl;
M2 = residue of a molecule bearing a hydroxy group;
B' = linker;
D' = 1-4C alkylene or 3-12C arylene;
R2 = H or a thiol protecting group.
INDEPENDENT CLAIMS are included for the following:

- (a) compounds (I) and (II) are claimed as new per se;
- (b) new alkyl or aryl thio esters of formula (III);
- (c) new amino thioethers of formula (IV);
- (d) compounds containing an amido mercapto structural unit of formula

(V);

- (e) new amido thio derivatives of formulae (VI) and (VII);
- (f) the preparation of (I) and (II); and
- (g) kits comprising (III) and/or (IV).

R5 = OH, oxy anion and salts, alkoxy, aryloxy, N-succinimidyloxy, N (norbornenedicarboximido)oxy, N-benzotriazolyloxy, N-(1,2-dihydro 1-oxo-2,3,4-benzotriazin-2-yl)oxy, halo or N-azolyl; or together with the adjacent CO groups forms an anhydride;

R6 = dialkylamino, imino, halo, N-azolyl, alkoxy, aryloxy, alkylthio or arylthioaryl;

J' = alkylene or arylene; and

Y' = labelling, reporter or effector group.

(I)-(VI) may be linked to a solid support.

USE - Compounds (I)-(VI) are useful e.g. for linking a peptide and an oligonucleotide.

Dwg. 0/0

FS CPI
FA AB: GI; DCN
MC CPI: B10-B03B; B10-D03

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